

ORDER FOR SUPPLIES OR SERVICES						PAGE OF PAGES		
						1	16	
IMPORTANT: Mark all packages and papers with contract and/or order numbers.								
1. DATE OF ORDER 09/22/2020		2. CONTRACT NO. (If any) EP-C-16-007		6. SHIP TO:				
3. ORDER NO. 68HERC20F0405		4. REQUISITION/REFERENCE NO. See Schedule		a. NAME OF CONSIGNEE AWPB-MB				
5. ISSUING OFFICE (Address correspondence to) CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001				b. STREET ADDRESS US EPA-OW-OWOW-AWPD-MB 1200 PENNSYLVANIA AVE., NW MC-4503-T				
				c. CITY WASHINGTON		d. STATE DC	e. ZIP CODE 20460	
7. TO: LYNN PETRAZZUOLO				f. SHIP VIA				
a. NAME OF CONTRACTOR Avanti Corporation				8. TYPE OF ORDER <input type="checkbox"/> a. PURCHASE REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.				
b. COMPANY NAME								
c. STREET ADDRESS 6621 Richmond Hwy #200				<input checked="" type="checkbox"/> b. DELIVERY Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.				
d. CITY Alexandria		e. STATE VA	f. ZIP CODE 223066602					
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE AWPD-MB				
11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input checked="" type="checkbox"/> a. SMALL <input type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input checked="" type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input checked="" type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input checked="" type="checkbox"/> h. EDWOSB						12. F.O.B. POINT		
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)		16. DISCOUNT TERMS		
a. INSPECTION Destination		b. ACCEPTANCE Destination						
17. SCHEDULE (See reverse for Rejections)								
ITEM NO. (a)	SUPPLIES OR SERVICES (b)			QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 796250538 This Task Order is the result of Request for Task Order Proposal PR-OW-20-00425. Work will commence on 09/21/2020. TOCOR: Sarah Lehmann Max Expire Date: 09/21/2021 Invoice Approver: Sarah Lehmann Continued ...							
SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		\$630,060.00	17(h) TOTAL (Cont. pages) ▲
	21. MAIL INVOICE TO:							
	a. NAME		RTP Finance Center				(b)(4)	17(i) GRAND TOTAL ▲
	b. STREET ADDRESS (or P.O. Box)		US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts					
c. CITY		d. STATE	e. ZIP CODE					
Durham		NC	27711					
22. UNITED STATES OF AMERICA BY (Signature)				09/22/2020		23. NAME (Typed) Sandra Stargardt-Licis TITLE: CONTRACTING/ORDERING OFFICER		

ORDER FOR SUPPLIES OR SERVICES
SCHEDULE - CONTINUATION

PAGE NO
2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 09/22/2020	CONTRACT NO. EP-C-16-007	ORDER NO. 68HERC20F0405
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>Alt Invoice App: Kendra Forde Admin Office: CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001 Period of Performance: 09/22/2020 to 09/21/2021</p> <p>BASE PERIOD: Provide services in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Aquatic Resource Surveys Reporting and Communication"</p> <p>Requisition No: PR-OW-20-00806</p> <p>Accounting Info: 20-21-B-87FM-000BD4-2505-2087ME4027-00 1 BFY: 20 EFY: 21 Fund: B Budget Org: 87FM Program (PRC): 000BD4 Budget (BOC): 2505 DCN - Line ID: 2087ME4027-001 Funding Flag: Complete Funded: (b)(4)</p>				(b)(4)	
0002	<p>OPTION PERIOD: Provide services in accordance with the attached Performance Work Statement, Attachment 1 to this Task Order entitled "National Aquatic Resource Surveys Reporting and Communication" (Option Line Item) 07/05/2021</p>					
9999	ADMINISTRATIVE TRACKING PURPOSES ONLY				(b)(4)	

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$630,060.00

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SECTION A - Solicitation/Contract Form

SECTION B - Supplies or Services/Prices

B-1 EPAAR 1552.217-71 OPTION TO EXTEND THE TERM OF THE CONTRACT-COST-TYPE CONTRACT. (APR 1984)

The Government has the option to extend the term of this contract for one additional period(s). If more than 60 days remain in the contract period of performance, the Government, without prior written notification, may exercise this option by issuing a contract modification. To exercise this option within the last 60 days of the period of performance, the Government must provide to the Contractor written notification prior to that last 60-day period. This preliminary notification does not commit the Government to exercising the option. The Government's estimated level of effort is (b)(4) direct labor hours for the first option period. Use of an option will result in the following contract modifications:

(a) The "Period of Performance" clause will be amended to cover a base period from 09/22/2020 to 09/21/2021 and option periods from 09/22/2021 to 09/21/2022.

(b) Paragraph (a) of the "Level of Effort" clause will be amended to reflect a new and separate level of effort of (b)(4) for the first option period.

(c) The "Estimated Cost and Fixed Fee" clause will be amended to reflect increased estimated costs and fixed fee for each option period as follows:

	Option 1	Option 2
Estimated cost	(b)(4)	
Fixed fee		
Total	\$362,299	n/a

(d) If the contract contains "not to exceed amounts" for elements of other direct costs (ODC), those amounts will be increased as follows:

Other direct cost item	Option 1	Option 2
	n/a	n/a

(End of clause)

B-2 Local Clauses EPA-B-16-102 ESTIMATED COST AND FIXED FEE – BASE PERIOD

(a) The estimated cost of this contract is (b)(4)

(b) The fixed fee is (b)(4)

(c) The total estimated cost and fixed fee is \$630,060.

B-3 Local Clauses EPA-B-32-101 LIMITATION OF FUNDS NOTICE - BASE PERIOD

(a) Severable services may be incrementally funded. Non-severable services shall not be incrementally funded. Pursuant to clause 52.232-22/Limitation of Funds, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 12/16/2020.

(b) When the contract is fully funded as specified in clause EPA-B-16-102/ Estimated Cost and Fixed Fee, then clause 52.232-20/Limitation of Cost shall become applicable.

(c) Recapitulation of Funds

Funding Action Estimated Cost Fixed Fee Total CPFF

RECAPITULATION OF FUNDING TO DATE BY CONTRACT PERIOD

CONTRACT NO. EP-C-16-007

TASK ORDER NO. 68HERC20F0405

Base Period - FROM 9/22/2020 through 09/21/2021

<u>FUNDING ACTION</u>	<u>ESTIMATED COST</u>	<u>FIXED FEE</u>	<u>TOTAL COST PLUS FIXED FEE</u>
Award	(b)(4)	(b)(4)	\$ 150,000.00
Total Funded			\$ 150,000.00
Total Per Contract			\$ 630,060.00
Balance Unfunded			\$ 480,060.00

SECTION C - Description/Specifications

SECTION D - Packaging and Marking

SECTION E - Inspection and Acceptance

SECTION F - Deliveries or Performance

F-1 Local Clauses EPA-F-12-101 PERIOD OF PERFORMANCE – BASE PERIOD

The period of performance of this contract shall be from 09/22/2020 through 09/21/2021 of all required reports.

SECTION G - Contract Administration Data

G-1 Local Clauses EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES

Contract-Level Contracting Officers Representatives (CORs)/Project Officers for this contract are as follows:

Sarah Lehmann: Task Order Contracting Officer's Representative, lehmann.sarah@epa.gov, 202-566-1379

Kendra Forde: Alternate Task Order Contracting Officer's Representative, forde.kendra@epa.gov, 202-566-0417

Contracting Officials responsible for administering this contract are as follows:

Sandra Stargardt-Licis: Contracting Officer, licis.sandy@epa.gov, 513-487-2006

Amanda Toole: Contract Specialist, toole.amanda@epa.gov, 513-569-7170

SECTION H - Special Contract Requirements

H-1 EPAAR 1552.237-72 KEY PERSONNEL. (APR 1984)

(a) The Contractor shall assign to this contract the following key personnel:

(b)(4)

(b) During the first ninety (90) days of performance, the Contractor shall make no substitutions of key personnel unless the substitution is necessitated by illness, death, or termination of employment. The Contractor shall notify the Contracting Officer within 15 calendar days after the occurrence of any of these events and provide the information required by paragraph (c) of this clause. After the initial 90-day period, the Contractor shall submit the information required by paragraph (c) to the Contracting Officer at least 15 days prior to making any permanent substitutions.

(c) The Contractor shall provide a detailed explanation of the circumstances necessitating the proposed substitutions, complete resumes for the proposed substitutes, and any additional information requested by the Contracting Officer. Proposed substitutes should have comparable qualifications to those of the persons being replaced. The Contracting Officer will notify the Contractor within 15 calendar days after receipt of all required information of the decision on substitutions. This clause will be modified to reflect any approved changes of key personnel.

(End of clause)

SECTION I - Contract Clauses

I-1 FAR 52.204-25 PROHIBITION ON CONTRACTING FOR CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT. (AUG 2020)

(a) *Definitions.* As used in this clause-

Backhaul means intermediate links between the core network, or backbone network, and the small subnetworks at the edge of the network (e.g., connecting cell phones/towers to the core telephone network). Backhaul can be wireless (e.g., microwave) or wired (e.g., fiber optic, coaxial cable, Ethernet).

Covered foreign country means The People's Republic of China.

Covered telecommunications equipment or services means-

- (1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);
- (2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);
- (3) Telecommunications or video surveillance services provided by such entities or using such equipment; or
- (4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Critical technology means-

- (1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;
- (2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-
 - (i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or
 - (ii) For reasons relating to regional stability or surreptitious listening;
- (3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);
- (4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);
- (5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or

(6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

Interconnection arrangements means arrangements governing the physical connection of two or more networks to allow the use of another's network to hand off traffic where it is ultimately delivered (e.g., connection of a customer of telephone provider A to a customer of telephone company B) or sharing data and other information resources.

Reasonable inquiry means an inquiry designed to uncover any information in the entity's possession about the identity of the producer or provider of covered telecommunications equipment or services used by the entity that excludes the need to include an internal or third-party audit.

Roaming means cellular communications services (e.g., voice, video, data) received from a visited network when unable to connect to the facilities of the home network either because signal coverage is too weak or because traffic is too high.

Substantial or essential component means any component necessary for the proper function or performance of a piece of equipment, system, or service.

(b) *Prohibition.* (1) Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104.

(2) Section 889(a)(1)(B) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2020, from entering into a contract, or extending or renewing a contract, with an entity that uses any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in FAR 4.2104. This prohibition applies to the use of covered telecommunications equipment or services, regardless of whether that use is in performance of work under a Federal contract.

(c) *Exceptions.* This clause does not prohibit contractors from providing-

(1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or

(2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

(d) *Reporting requirement.* (1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

(2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause:

(i) Within one business day from the date of such identification or notification: The contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.

(ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: Any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.

(e) *Subcontracts*. The Contractor shall insert the substance of this clause, including this paragraph (e) and excluding paragraph (b)(2), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

(End of clause)

SECTION J - List of Documents, Exhibits and Other Attachments

Attachment Number	Title	Date
1	Attachment 1 - Performance Work Statement	08/20/2020

**Performance Work Statement
Technical Support for National Aquatic Resource Surveys
Task Order #68HERC20F0405**

A. TITLE: National Aquatic Resource Surveys Reporting and Communication

B. EPA PERSONNEL

Task Order Contracting Officer Representative (TOCOR):

Name: Sarah Lehmann
Office: Office of Water/Office of Wetlands, Oceans & Watersheds/Watershed
Restoration and Protection Division/Monitoring and Analysis Branch
Address: 1200 Pennsylvania Avenue NW (4503T), Washington, DC 20460
Telephone: 202-566-1379
E-mail: lehmann.sarah@epa.gov

Alternate Task Order Contracting Officer Representative (ALT-TOCOR):

Name: Kendra Forde
Office: Office of Water/Office of Wetlands, Oceans & Watersheds/Watershed
Restoration and Protection Division/Monitoring and Analysis Branch
Address: 1200 Pennsylvania Avenue NW (4503T), Washington, DC 20460
Telephone: 202-566-0417
E-mail: forde.kendra@epa.gov

C. ESTIMATED PERIOD OF PERFORMANCE

Base Period: Date of Award through One Year

Option Period 1: One Year following Award through One Year

I. BACKGROUND:

Numerous reports have identified the need for improved water quality monitoring and analysis at the national scale to more effectively address national and broad regional questions. To address these issues, the U.S. Environmental Protection Agency, states, and tribes conduct a series of surveys of the nation's aquatic resources called the National Aquatic Resource Surveys (NARS). The NARS is made up of four surveys, the National Lakes Assessment (NLA), the National Coastal Condition Assessment (NCCA), the National Wetland Condition Assessment (NWCA) and the National Rivers and Streams Assessment (NRSA).

Using a probability-based survey design, the NARS provide nationally consistent and scientifically-defensible assessments of our nation's waters and can be used to track changes in condition over time. Each survey uses standardized field and lab methods and is designed to yield unbiased estimates of the condition of the whole water resource being studied (i.e., rivers and streams, lakes, wetlands, or coastal waters). A key aspect of the NARS is the ability to make estimates about the condition of the entire population of waters because sites are selected using a

stratified random design. As part of these assessments, the EPA has been developing national reports for each of the water resources. These reports have been primarily “traditional” hardcopy/pdf reports. Based on feedback from partners and other users of the NARS data, EPA is interested in refining and expanding the reporting and communication approaches we use. This includes application of data visualization techniques (e.g. more web-based, informative, and interactive reporting formats); improving how we message information from and about the surveys; and developing tools to support partner uses of the data and results.

II. PURPOSE

The purpose of this task order is to provide support in developing and refining reports for the NCCA, the NWCA, NRSA and the NLA, refining messages related to all four of the surveys in reports and other related materials, presenting data from all of the national assessments for various audiences, and focusing on techniques that help to transfer the assessment results and key aspects of the surveys.

III. GOVERNMENT FURNISHED INFORMATION

Following award of the Task Order, EPA will provide a variety of products to the contractor including, among others, the following.

- Draft National Rivers and Streams Assessment (NRSA) 2013-2014 Report
- Draft Screen Captures of NRSA Field Methods and Reference-Based Approach Applications (App)
- Draft NRSA 2013-2014 Fact Sheet
- Draft National Coastal Condition Assessment (NCCA) 2015 Report
- Draft NARS Reporting Indicators Application
- Draft National Lakes Assessment (NLA) R Shiny Tool for partners
- Draft NLA Context Tool

IV. GENERAL REQUIREMENTS

In providing support under the tasks described in Section V, the contractor also shall adhere to the following general requirements:

1. Deliverables (see Contract PWS B.1)

Unless specified differently in the PWS or in written technical direction (per Contract Clause H.12), the contractor shall provide deliverables as electronic files transmitted by email.

Memoranda shall be placed on company letterhead and the subject line shall include the phrase “EPA Contract EP-C-16-0XX”. When transmitting deliverables by email, subject headers should include the contract, task order, and deliverable description (e.g., “EP-C-16-0XX TO01: QAPP Signature Pages”).

All electronic files shall be clearly named using a logical abbreviation for the name of the document (e.g., QAPP), the contractor name (abbreviated), and the date of edits to assist in version control (ex: NRSA_QAPP_XX_YYYYMMDD). Final versions shall be provided to EPA in both the original format (e.g., Word, PowerPoint) and PDF versions. The contractors shall also assist EPA in addressing 508 compliance.

Unless specified differently by the EPA TOCOR in written technical direction (per Contract Clause H.12), the contractor shall ensure that documentation is created using Agency standard software formats (e.g., Microsoft Office) to facilitate EPA use and review.

2. Meetings (see Contract clause C.2)

Contractor personnel shall always identify themselves as contractor employees by name and organization and physically display that information through an identification badge. Contractor personnel are prohibited from acting as the Agency’s official representative. The contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the TOCOR.

The contractor shall follow the provision of EPA prescription 1523.703-1, acquisition of environmentally preferable meeting and conference services (May 2007), for the use of off-site commercial facilities for an EPA event, whether the event is a meeting, conference, training session, or other purpose. Environmental preferability is defined at FAR 2.101, and shall be used when soliciting quotes or offers for meeting /conference services on behalf of the Agency. No single event under this TO is anticipated to exceed \$20,000. The contractor shall immediately notify the EPA Contracting Officer, PO and TOCOR of any anticipated event involving support for a meeting, conference, workshop, symposium, retreat, seminar or training that may potentially incur \$20,000 or more in cost during performance. Conference expenses are all direct and indirect costs paid by the government and include any associated authorized travel and per diem expenses, room charges for official business, audio visual use, light refreshments, registration fees, ground transportation and other expenses as defined by the Federal Travel Regulations. All outlays for conference preparation should be included, but the federal employee time for conference preparation should not be included. After notifying EPA of the potential to reach this threshold, the contractor shall not proceed with the task(s) until authorized to do so by the Contracting Officer.

V. SCOPE OF WORK

Task 1. Monthly progress reports (See Contract Attachment 2, Reports of Work, and 3, Invoice Preparations)

The contractor shall manage the Task Order (TO) and submit monthly progress and financial reports prepared and submitted in accordance with the contract clause, Contract Attachment 2, Reports of Work. The monthly progress and financial reports shall be broken out by task. The monthly progress report shall include project status, expenditures to date, unexpected problems or concerns, lessons learned, QA/QC activities, and next steps. The contractor also shall brief the TOCOR on progress during periodic (e.g., weekly) teleconferences during periods of intense activity.

Conference Calls (See PWS B.2): The contractor shall work with EPA to schedule a conference call within one week of the start of the period of performance to discuss the PWS tasks and schedules. Members of the contractor's management team and the lead communication specialist (see required qualifications in technical evaluation criterion NC3). The contractor shall hold up to approximately 50 technical conference calls with EPA to discuss work under this Task Order in the Base and Option Period 1 (approximately 100 total). It is anticipated that the calls will be up to two hours (with a few being longer to dive into details) and include two to three contractor staff on each call. Topics for the calls (not necessarily all topics on all calls) shall include content for reporting alternatives, user needs and feedback, format and design issues, refined messaging, editing, photos, and schedules in addition to other relevant items.

Deliverables and Schedule under Task 1:

Task	Deliverable	Due
1	Progress and financial reports	Monthly
	Calls with EPA	Kick-off call within one week of start of period of performance. Other Calls – TBD via written technical direction

Task 2. Quality Assurance (Contract PWS B.2)

Quality Assurance (QA) is an important component of EPA's work to assure that minimum quality standards are attained. The contractor shall address the QA requirements of this task order by adhering to the requirements and procedures identified in:

- The contractor's customized Quality Management Plan incorporated into this NARS contract;

2.1 As demonstration of the contractor's implementation of QA in performing the other tasks in this Performance Work Statement, the contractor shall document its QA activities as follows:

2.1.a Reports of relevant QA activities in any deliverable. All QA documentation prepared under the task order shall be considered non-proprietary.

2.1.b Monthly reports of QA activities performed during implementation of this task order. These monthly QA reports shall identify QA activities performed to support implementation of this task order, problems encountered, and corrective actions taken. The contractor shall include the QA report with the monthly progress report. In addition, the contractor shall immediately bring to the attention of the TOCOR, any QA problems that may affect the conduct of the tasks or the project, with recommendations for corrective actions.

2.1.c Develop and update, if needed, the process(es) that the contractor shall use for ensuring quality and conducting quality assurance/quality control of reporting and communication products developed under this task order.

2.2 Unless the TOCOR grants an exception, the contractor shall refrain from publishing findings based upon work conducted under this task order. This restriction shall remain in effect until EPA provides public access to the data.

Deliverables and Schedule under Task 2:

Task	Deliverable	Due
2.1	Documentation of QA activities	With deliverables
2.1	Monthly reports of QA activities	With monthly progress report
2.1	Processes for QA/QC	Initial with proposal (see Technical Evaluation Criterion NC1) Revisions TBD

Task 3. Report Support (Contract PWS C.6)

The contractor shall provide report support for the following NARS efforts: finalization of the NRSA 2013/2014 report and supporting materials (if not yet released by EPA), finalization of the NCCA 2015 report and supporting materials (if not yet released by EPA), development and finalization of the NWCA 2016 report and supporting materials, development and finalization of the NLA 2017 report and supporting materials, and development and finalization of the NRSA 2018/2019 report and supporting materials. The contractor shall provide technical editing consistent with EPA's style guide, design development and layout support (e.g., InDesign or similar software). The contractor shall provide communications support and application development support requiring a variety of skills such as developing static and interactive

communication products/graphics with Qlik, Tableau, hyper- text markup language (html), cascading style sheets (css), JavaScript, D3¹, R/R-Shiny², or similar tools custom illustrations and graphic designs; and familiarity with Drupal.

EPA anticipates that during the Base Period, the NRSA 2013/2014, NCCA 2015, and the NLA 2017 report and related materials will be completed. Additionally, work will include development of NWCA 2016 materials and initiating the NRSA 2018/2019 materials. During Option Period 1, EPA anticipates the NWCA 2016 and NRSA 2018/2019 reports and related materials will be complete. Because of EPA delays, EPA rework or other internal EPA issues, there may be some work revising the other reports during Option Period 1 as well.

Editing under this task shall include such support as:

- proofreading and editing documents for proper grammar and syntax;
- reviewing and recommending edits to language to make sure it is accessible and clear for the intended audience (EPA, state/tribal management and the informed/interested public);
- suggesting revisions to, and where needed, developing new formats/layouts/graphics/figures for the report in order to communicate messages effectively;
- adding appropriate and permissible photographs to the document to support messages in the report; and
- for the final version of documents and other pertinent products, providing a 508 compliant version.

3.1 The National Rivers and Streams Assessment 2013/2014 Report Package

3.1.a Report

This report conveys general information from the rivers and streams assessment. The report has been written and peer reviewed. EPA is currently waiting on final comments before finalizing the report. The draft report is approximately 50 pages long and has 25 graphics and figures. During the Base Period, the contractor shall assist EPA in finalizing the formatting and editing of the report once final comments are received, including layout. The report is currently in InDesign and PDF formats; EPA will provide the contractor with the InDesign file after award of the Task Order. During the Base Period, the contractor shall incorporate up to three rounds of EPA's comments and provide the revisions within five business days of receiving EPA comments.

3.1.b NRSA Communication materials

Communication materials for the NRSA report package have been developed and include a StoryMap with related web applications and a fact sheet. Once final comments are received, the contractor shall provide the following support during the Base Period:

¹ D3 is a JavaScript library for producing dynamic, interactive data visualizations in web browsers (from Wikipedia).

² **R** is a programming language and software environment for statistical computing and graphics. The R language has become a standard among statisticians for developing statistical software and is widely used for statistical software development and data analysis. **Shiny** is an **R** package that makes it easy to build interactive web apps straight from **R**.

- Web application revisions. There are currently two web applications developed related to the StoryMap: one that depicts field methods for a public audience and one that describes the reference-based approach for a relatively non-technical audience. The field methods application allows users to select a NRSA indicator and read general information about how the data are collected and used. If EPA has additional comments or edits (based on internal EPA review processes) or ideas for expansion such as addition of short video clips that show key field methods, the contractor shall revise these applications. The applications are built with HTML, CSS, and JavaScript (including some D3 JavaScript libraries). The contractor shall incorporate up to four sets of EPA's comments for each application and provide the revisions within ten business days of the final comments.
- Fact Sheet. The fact sheet is a two-page document in InDesign and pdf. If EPA has additional comments or edits (based on internal EPA review processes), EPA will provide the InDesign file after award of the Task Order. The contractor shall incorporate up to two rounds of EPA comments within 3 business days.

3.2 The National Coastal Condition Assessment 2015 Report Package

3.2.a Report

This report conveys general information from the coastal assessment. The report has been written and a layout has been developed, with each of the coastal indicators presented in a similar, two page format that includes a general description, one to two graphics, and/or photos. The report must go through Peer Review and still requires management review. The report is approximately 50 pages long and currently has approximately 33 graphics and figures. During the Base Period, the contractor shall assist EPA in finalizing the formatting and editing of the report, including layout. The report is currently in InDesign and PDF formats. EPA will provide the InDesign file to the contractor after award of the Task Order. This task will include up to four rounds of proofreading and editing to the draft report by the contractor and the contractor shall provide each revision within ten business days of receiving EPA comments. During the Base Period, the contractor shall provide up to three sets of revisions to graphics and illustrations developed for the report and new graphics or illustrations if needed based on revisions. The contractor shall deliver revisions to graphics and illustrations within ten business days of receiving EPA comments. The contractor shall also finalize the layout of the report including text, graphics, illustrations and photos. The contractor shall implement up to four additional revisions to the draft final design/layout and the exact text of the report based on comments from EPA and provide these revisions within five business day of receiving the comments.

3.2.b NCCA Communication materials

During the Base Period, the contractor shall provide the following support:

- **Fact sheet:** The contractor shall provide up to three draft options for a new or revised fact sheet based on the overall report layout in terms of style within ten business days of discussion with the TOCOR and written technical direction (per Contract Clause H.12). Considerations for the fact sheet shall include need for printing (e.g., pdf) and for

displaying on EPA's website. EPA will provide comments and request information as needed regarding the options via written technical direction (per Contract Clause H.12). Once EPA selects a final design, the contractor shall move forward with the selected option and provide the updated product within ten business days. The contractor shall implement up to three rounds of revisions to the draft final fact sheet and shall provide each round of revisions within three business days of receiving EPA comments.

- **Web applications:** Similar to the applications developed for NRSA, the contractor shall develop/refine up to three web applications (which may include other graphics and/or related figures) for displaying NCCA-related information. One of these applications shall be an application depicting NCCA field methods similar to the NRSA application. The contractor shall develop up to two other applications depicting key information from the NCCA following discussions with EPA. EPA will provide comments and request information as needed regarding the options via technical direction (per Contract Clause H.12) and during a call if needed. The contractor shall incorporate up to seven sets of EPA's comments into each selected option and provide the final design option(s) within ten to twenty business days of the final comments.

3.3 The National Lakes Assessment 2017 Report Package

3.3.a Report

The National Lakes Assessment reporting package will convey general information from the NLA 2017. EPA anticipates a relatively small reporting package for the NLA including an executive summary type document, web highlights, fact sheet, infographics and web applications of NLA explanatory materials, and an updated dashboard (part of Task 4). The report package will need to go through partner and EPA management review and additional peer review may be needed. During the Base Period, the contractor shall provide the following support:

- The contractor shall provide some writing, as well as proofreading and other editorial support, for up to five versions of the executive summary and supplemental web highlights (examples include dissolved gasses, fish environmental deoxyribonucleic acid (eDNA), E. coli, etc.). For these versions, the contractor shall provide revisions within ten business days. These versions will coincide with the following major milestones (each version for these milestones will include several iterations that must incorporate EPA comments):
 - i. Pre-peer review version (for EPA management review)
 - ii. Peer and State partners review version
 - iii. Early management review version (EPA to incorporate peer review comments prior to providing this version to contractor)
 - iv. Senior management review version
 - v. Version for public release
- Based on the discussion during an EPA/contractor conference call regarding the draft options and other considerations and following written technical direction (per Contract Clause H.12) the contractor shall provide EPA with two to three options for design layout

of the web highlights described above within fifteen business days. The contractor shall provide one additional round of design options within five business days if directed by the TOCOR via written technical direction (per Contract Clause H.12). Once EPA selects a final design/set of design elements, the contractor shall move forward with the selected option. Up to three rounds of comments will be provided by EPA on the selected web highlight. The contractor shall provide revisions of the web highlight within ten business days of receiving written technical direction.

- Although EPA anticipates that a traditional report will not be developed for NLA 2017, it is possible that will change based on EPA management feedback. If a traditional report is required, EPA plans to use the NLA 2012 report (see <https://www.epa.gov/national-aquatic-resource-surveys/national-results-and-regional-highlights-national-lakes-assessment>) as a template and the contractor shall update it with new information, graphics, etc. EPA will provide the contractor with the NLA 2012 InDesign file if this is required. EPA anticipates up to five sets of comments/revisions on the report similar to the major milestones outlined above. The contractor shall provide comments/revisions within five to fifteen business days depending on the extent of comments.

3.3.b NLA Communication materials

During the Base Period, the contractor shall provide the following support:

- **Fact Sheet:** The contractor shall provide up to three draft options for a fact sheet within ten business days of discussion with the TOCOR. Considerations for the fact sheet shall include need for printing (e.g., pdf) and for displaying on EPA's website. EPA will provide content for the fact sheet. Once EPA selects a final design, the contractor shall move forward with the selected option and provide the updated fact sheet within ten business days of receiving written technical direction from the TOCOR. EPA will provide revised text/edits that the contractor shall incorporate (up to four versions). The contractor shall review and recommended edits to the fact sheet for up to four versions within five business days.
- **Infographics:** Following written technical direction, the contractor shall provide up to three draft options for each selected infographic based on NLA context information. For example ideas include, but are not limited to, compelling concise messages from the assessment; lake sample locations and indicator graphic (e.g., Fig. 3.2 in NLA 2012 report at the link provided in 3.3.a); assessment context (e.g., Fig. 3.3 in NLA 2012 report); interpreting lake condition graphics (e.g., Fig. 4.1 in NLA 2012 report); and a lookup table with summary info for each of the NLA 2017 indicators (appendix A in NLA 2012 report). EPA shall provide initial ideas for the infographics. Considerations for the infographics shall include communicating information to a general audience, printing, display on a website and including in an EPA communication strategy (e.g., twitter, etc). Once EPA selects a final design, the contractor shall move forward with the selected option and provide the updated infographics within ten business days. EPA anticipates up to four rounds of edits for up to two infographics.
- **Web applications:** Similar to the applications developed for NRSA, the contractor shall develop/refine up to three web applications (which may include other graphics and/or related figures) for displaying NLA-related information. One of these applications will likely be an application depicting NLA field methods similar to the

NRSA application. The contractor shall develop up to two other applications depicting key information from the NLA within ten business days following discussions with EPA and receiving written technical direction. EPA will provide comments and request information as needed regarding the options via written technical direction (per Contract Clause H.12) and during a call if needed. The contractor shall incorporate up to seven sets of EPA's comments into each selected option and provide the final design within ten business days of receiving the final comments.

3.4 National Wetland Condition Assessment 2016 Report Package

3.4.a Report

Preliminary work has been completed to review and begin the process of streamlining the original NWCA 2011 report to create a more concise report such as the NLA 2012 report for the 2016 report package. EPA will provide an initial draft version of the report to the contractor after award of this task order. The NWCA report will include more background information on the importance of wetlands, but otherwise will be striving for a similar, more streamlined format. A preliminary design format has also been selected and EPA will provide the InDesign (or other) file after award of the Task Order for use in developing the report. It is anticipated that the report will be approximately 75 pages. EPA anticipates that 70% of the work under this subtask will be completed in the Base Period and 30% of the work will be completed in the Option Period. Under this Task Order, the contractor shall provide the following support:

- **Report development and schedule:**

- A. During the Base Period, participate in an initial teleconference with the EPA TOCOR to discuss, at a minimum:

- i. Overall goals and objectives for the summary report and each major revision.
 - ii. Development of highlights for the report and/or web
 - iii. Outline for the summary report
 - iv. Layout designs
 - v. Schedule for the major revisions
 - vi. Software (e.g. MicroSoft Word) appropriate for each version

- B. During the Base Period, develop a schedule within ten business days following the teleconference that identifies the features (see list in C.v below) that will be addressed for each major revision. The features must include, at a minimum, those that are identified below and the software format that will be used.

- C. Produce the following versions of the summary report (each major milestone listed below will include up to three iterations (fifteen total) that must incorporate EPA comments; revisions shall be provided within ten to fifteen business days of receipt of EPA comments, depending on the extend of the comments). During the

Base Period, EPA anticipates completion of i, ii, and iii. During the Option period, EPA anticipates completion of iv and v.

- i. Pre-peer review version (for EPA management review)
 - ii. Peer and State partners review version
 - iii. Early management review version (EPA to incorporate peer review comments prior to providing this version to contractor)
 - iv. Senior management review version
 - v. Version for public release that has the following features:
 - 1) No typographical and grammatical errors.
 - 2) Internal consistency within the summary document and consistency between the summary and technical documents. For example:
 - If the graphics indicate that 40% of the wetland area is in good condition the text also should use this number.
 - Percentages and other numbers add to appropriate totals
 - Chapters have the same formatting (i.e., all chapters look like they are from the same report)
 - 3) Basic organization structures such as Table of Contents, headers/footers, sidebars and “highlights,” and references.
 - 4) EPA-supplied graphics
 - 5) Contractor-generated graphs and charts based upon EPA’s mockups and/or ideas.
 - 6) High quality graphics and photographs formatted in JPEG or TIFF format (300 dots per inch or higher) and accompanied with captions.
 - 7) Graphics and photographs include captions and photo credits.
 - 8) Incorporates EPA comments.
 - 9) Plain language (<https://www.epa.gov/home/plain-writing/>) that targets EPA’s intended audience (i.e., the general public) and conforms to the EPA Style book <http://www.epa.gov/stylebook/>.
 - 10) Conformance with EPA posting requirements (<https://www.epa.gov/webguide>)
 - 11) According to the contract clause “C-1 EPAAR 1552.211-79” all final deliverables submitted by the contractor shall be compliant with the Section 508 requirements.
- **Design/Layout:** During the Base Period, based on current draft design options, following technical direction (per Contract Clause H.12) the contractor shall provide EPA with two to three options for design layout of the report (e.g., general cover design, header and footer layouts, hyperlinking the table of contents and legends, and other style elements, etc.) within ten business days of a conference call with the TOCOR to discuss the design layout. The contractor shall provide one additional round of design options within five business days if directed by the TOCOR via written technical direction (per Contract Clause

H.12). Once EPA selects a final design/set of design elements, the contractor shall move forward with the selected option. Up to three rounds of comments will be provided by EPA on the selected option (two in the Base Period and one in the Option Period). The contractor shall provide revision within ten business days after receiving the comments from EPA.

3.4.b **NWCA Communication materials:**

- **Fact Sheet:** During the Base Period, the contractor shall provide up to three draft options for a fact sheet based on the overall report layout in terms of style within ten business days of discussion on a conference call and after receiving written technical direction. Considerations for the fact sheet shall include need for printing (e.g., pdf) and for displaying on EPA's website. EPA will provide content for the fact sheet. Once EPA selects a final design, the contractor shall move forward with the selected option and provide the updated fact sheet within ten business days of EPA selects a final design. EPA will provide revised text/edits that the contractor shall incorporate. The contractor shall review and recommend edits to the fact sheet for up to four versions within five business days of receiving revised text/edits from the EPA. EPA anticipates two of these versions will occur in the Base Period and two will occur in the Option Period.
- **Web applications:** Similar to the applications developed for NRSA, the contractor shall develop/refine up to three web applications (which may include other graphics and/or related figures) for displaying NWCA-related information. One of these applications will likely be an application depicting NWCA field methods similar to the NRSA application. Initial work on this product has started and will be provided to the contractor upon award. The contractor shall develop up to two other applications depicting key information from the NWCA within ten business days following discussions with EPA and after receiving written technical direction. EPA will provide comments and request information as needed regarding the options via written technical direction and during a call if needed. The contractor shall incorporate up to seven sets of EPA's comments into each selected option and provide the final design option(s) within ten business days of receiving the final comments. EPA anticipates three of these sets of comments will be provided in the Base Period and four will be provided in the Option Period.
- **Infographics:** Following written technical direction (per Contract Clause H.12) the contractor shall provide up to three draft options for infographics based on NWCA information. EPA shall provide initial ideas for the infographics. Considerations for the infographics shall include communicating information to a general audience, printing, display on a website and including in an EPA communication strategy (e.g., twitter, etc). Once EPA selects a final design, the contractor shall move forward with the selected option and provide the updated infographics within ten business days of EPA selecting a final design. EPA anticipates up to four rounds of edits for up to two infographics. EPA anticipates the first two rounds of edits will occur in the Base Period and the second rounds of edits will occur in the Option Period.

3.5 NRSA 2018/2019 Report Package

3.5.a Report

The National Rivers and Streams 2018/2019 reporting package will convey general information from the NRSA 2018/2019. For the NRSA 2018/2019, EPA anticipates moving to a stream-lined reporting package consisting of such products as the web-based reporting App (see Task 3.6), dashboards (see Task 4), story map, an executive summary, a fact sheet and web highlights (similar to NLA 2017). The report package will need to go through partner and EPA management review and additional peer review may be needed. The contractor shall provide the following support:

- The contractor shall provide some writing, as well as proofreading and other editorial support, for up to five versions of the executive summary and supplemental web highlights. For these versions, the contractor shall provide revisions within ten business days of receipt of EPA comments. These versions will coincide with the need to meet the following major milestones (each major version addressing a milestone will include several iterations that must incorporate EPA comments):
 - i. Pre-peer review version (for EPA management review)
 - ii. Peer and State partners review version
 - iii. Early management review version (EPA to incorporate peer review comments prior to providing this version to contractor)
 - iv. Senior management review version
 - v. Version for public release
- During the Base Period, based on the discussion during an EPA/contractor conference call regarding the draft options and other considerations and following written technical direction (per Contract Clause H.12) the contractor shall provide EPA with two to three options for design layout of the web highlights described above within fifteen business days. The contractor shall provide one additional round of design options within five business days based on those comments/discussions if directed by the TOCOR via written technical direction (per Contract Clause H.12). Once EPA selects a final design/set of design elements, the contractor shall move forward with the selected option. EPA anticipates this will occur in the Option Period.
- Although EPA anticipates that a traditional report will not be developed for NRSA 2018/2019, it is possible that will change based on EPA management feedback. If a traditional report is required, EPA plans to use NRSA 2013/2014 report as an initial template and the contractor shall update it with new information, graphics, etc. EPA will provide the contractor with the NRSA 2013/2014 report InDesign file if this is required EPA anticipates up to five sets of comments/revisions on the report similar to the major milestones outlined above. The contractor shall provide revisions within five to fifteen business days depending on the extent of comments.

3.5.b NRSA Communication materials:

- o **Fact Sheet:** During the Base Period, the contractor shall provide up to three draft options for a fact sheet within two weeks of discussion on a conference call and

after receiving written technical direction. Considerations for the fact sheet shall include need for printing (e.g., pdf) and for displaying on EPA's website. EPA will provide content for the fact sheet. Once EPA selects a final design (during the Option Period), the contractor shall move forward with the selected option and provide the updated fact sheet within ten business days of receiving the selected final design. EPA will provide revised text/edits that the contractor shall incorporate. The contractor shall review and implement revisions for up to four versions within five business days after receiving text/edits from the EPA.

- **Web applications:** During the Option Period, similar to the applications developed for NRSA 2013/2014, the contractor shall develop/refine up to three web applications (which may include other graphics and/or related figures) for displaying NRSA-related information. The contractor shall develop the applications depicting key information from the NRSA following discussions and written technical direction (per Contract Clause H.12) from the TOCOR within ten to twenty business days depending on the complexity of the selected option(s). The contractor shall incorporate up to seven sets of EPA's comments into each selected option and provide the final design option(s) within ten business days of receiving the final comments.
- **Infographics:** During the Option Period and following written technical direction (per Contract Clause H.12), the contractor shall provide up to three draft options for infographics based on NRSA information. EPA shall provide initial ideas for the infographics. Considerations for the infographics shall include communicating information to a general audience, printing, display on a website and including in an EPA communication strategy (e.g., Twitter, etc). EPA will provide comments and request information as needed regarding the options via email and during a call if needed. Once EPA selects a final design, the contractor shall move forward with the selected option and provide the updated infographics within ten business days. EPA anticipates up to four rounds of edits for up to two infographics.

3.6.Web Application for Reporting NARS Indicators by Survey

EPA has initiated development of a web-based application that allows users to "click" through indicators from a survey with concise descriptions of the indicator and key results. Under this Task Order, the contractor shall provide support in finalizing this application for an initial survey and applying it to each of the other reports. In developing this application, the contractor shall consider whether/how such a product could pull information from the data dashboard or other on-line source of NARS data or make use of static graphics from the report or dashboard, etc. The contractor shall also consider how such a website/application can connect to background information on the survey (such as basic information on the design, how the analysis is conducted, highlights and infographics developed in other sections of this task, etc). Once EPA selects a final design, the contractor shall move forward with the selected option and provide up to ten iterations for each survey incorporating EPA comments after each round within ten business days of receiving EPA comments. The contractor shall provide the final design option(s) within ten business days of receiving the final comments. EPA anticipates that

the applications for lakes and coastal waters will be developed and completed during the Base Period.. Additionally, the applications for wetlands and rivers/streams 2018/2019 will be started during the Base Period and completed during the Option Period.

Deliverables and schedule under Task 3

Deliverables/Activities	Schedule
3.1.a Revised NRSA 1314 report	Up to three rounds of edits; revisions within five business days following EPA comments.
3.1.b Revised NRSA 1314 web applications	Up to four rounds of edits; revisions within ten business days following EPA comments.
3.1.b Revised NRSA 1314 fact sheet	Up to two rounds of edits; revisions within three business days following EPA comments.
3.2.a Revised NCCA report	Up to four rounds of proof reading, editing text, and initial layout; revisions within ten business days following EPA comments.
3.2.a Revised graphics for NCCA report	Up to three additional revisions to graphics; revisions within ten business days following EPA comments.
3.2.a Revised NCCA report design/layout	Up to four additional rounds of edits; revisions within five business days following EPA comments
3.2.b NCCA fact sheet	Up to three draft options for a fact sheet; option provided within ten business days following EPA comments. Draft fact sheet within ten business days following EPA comments on options. Up to three rounds of edits to draft fact sheet; revisions within three business days.
3.2.b NCCA web applications	Drafts within ten to twenty business days depending on extent of comments and per written technical direction (per Contract Clause H.12) following EPA comments. Up to seven rounds of edits on each selected option; revisions within ten business days following EPA comments. Final web applications within ten business days following EPA comments.
3.3.a NLA executive summary and web highlights	Up to five rounds of writing, proof reading, and editing text; revisions within ten business days following EPA comments.
3.3.a NLA web highlights design/layout	Up to three options for design/layout; options delivered within fifteen business days following EPA written

Deliverables/Activities	Schedule
	<p>technical direction (per Contract Clause H.12) and comments.</p> <p>One additional round of design options within five business days.</p> <p>Up to three rounds of edits on the selected option; revisions within ten business days following EPA comments.</p>
3.3.a Revised traditional NLA report (if needed)	Up to five set of comments on text and graphics; revisions to within five to fifteen business days depending on extent of comments and per written technical direction (per Contract Clause H.12).
3.3.b NLA fact sheet	<p>Up to three draft options; options delivered within ten business days following EPA comments.</p> <p>Final design option delivered within ten business days of EPA comments</p> <p>Up to four rounds of edits to text, design and graphics to the final option; revisions within five business days following EPA comments.</p>
3.3.b NLA infographics	<p>Up to three draft options; options delivered within ten business days following EPA comments.</p> <p>Up to four rounds of edits to two selected options; revisions within five business days following EPA comments.</p>
3.3.b NLA Web Applications	<p>Drafts within ten to twenty business days depending on extent of comments and per written technical direction (per Contract Clause H.12) following EPA comments.</p> <p>Up to seven rounds of edits on each selected option; revisions within ten business days following EPA comments.</p> <p>Final web applications within ten business days following EPA comments.</p>
3.4.a NWCA Conference Call	TBD
3.4.a Schedule	Within ten business days following call in line above and via written technical direction.
3.4.a NWCA Report	Up to fifteen sets of comments on text and graphics; revisions within ten to fifteen business days depending on extent of comments and per written technical

Deliverables/Activities	Schedule
	direction (per Contract Clause H.12) following EPA comments.
3.4.a Revised NWCA design and layout	<p>Up to three options for design and layout; options delivered within ten business days following EPA written technical direction (per Contract Clause H.12) and comments.</p> <p>One additional round of design options within five business days.</p> <p>Up to three rounds of edits on the selected option; revisions within ten business days following EPA comments.</p>
3.4.b NWCA fact sheet	<p>Up to three draft options; options delivered within ten business days following EPA comments.</p> <p>Final design option delivered within ten business days of EPA comments.</p> <p>Up to four rounds of edits to text, design and graphics in the final option; revisions within five business days following EPA comments.</p>
3.4.b NWCA web applications	<p>Drafts within ten business days depending on the complexity of the selected option(s) and per written technical direction (per Contract Clause H.12) following EPA comments.</p> <p>Up to seven rounds of edits on each selected option; revisions within ten business days following EPA comments.</p> <p>Final web applications within ten business days following EPA comments.</p>
3.4.b NWCA infographics	<p>Up to three draft options; options delivered within ten business days following EPA comments.</p> <p>Up to four rounds of edits to two selected options; revisions within five business days following EPA comments.</p>
3.5.a NRSA 1819 executive summary and web highlights	Up to five rounds of writing, proof reading, and editing text; revisions within ten business days following EPA comments
3.5.a NRSA 1819 web highlight design/layout	Up to three options for design/layout; options delivered within fifteen business days following EPA written

Deliverables/Activities	Schedule
	<p>technical direction (per Contract Clause H.12) and comments.</p> <p>One additional round of design options within five business days.</p> <p>Up to three rounds of edits on the selected option; revisions within ten business days following EPA comments.</p>
3.5.a Revised NRSA 1819 traditional Report (if needed)	Up to five set of comments on text and graphics; revisions to within five to fifteen business days depending on extent of comments and per written technical direction (per Contract Clause H.12).
3.5.b NRSA 1819 Factsheet	<p>Up to three draft options; options delivered within ten business days following EPA comments.</p> <p>Final design option delivered within ten business days of EPA comments</p> <p>Up to four rounds of edits to text, design and graphics to the final option; revisions within five business days following EPA comments.</p>
3.5.b NRSA 1819 Web Applications	<p>Develop/revise up to three web applications; revisions to applications within ten to twenty business days depending on the complexity of the selected option(s) and per written technical direction (per Contract Clause H.12) following EPA comments.</p> <p>Up to seven rounds of edits on each selected option; revisions within ten business days following EPA comments.</p> <p>Final within ten business days following EPA comments.</p>
3.5.b NRSA 1819 Infographics	<p>Up to three draft options; options delivered within ten business days following EPA comments.</p> <p>Up to four rounds of edits to two selected options; revisions within five business days following EPA comments.</p>
3.6 NARS Web application – Indicators	<p>Draft revisions TBD depending on extent of comments and per written technical direction (per Contract Clause H.12) following EPA comments.</p> <p>Up to ten iterations for each survey; revisions within ten business days following EPA comments.</p>

Deliverables/Activities	Schedule
	Final application within ten business days following EPA comments.

Task 4 –Data Presentations, Graphics and Analysis Tools [See Contract PWS C.5 and C.6]

This task is designed to allow EPA to refine and explore various options for reporting and sharing National Aquatic Resource Survey data from all surveys using data presentation/visualization tools, methods, and tools/techniques. This effort builds on work to develop data dashboards for the each of the surveys. This task will result in the development of graphics, charts, dashboards and other data presentation techniques for presenting information and tools to diverse audiences. The contractor shall provide editing, design development and layout support. The contractor shall provide communications support and application development support requiring a variety of skills such as developing static and interactive communication products/graphics with Qlik, Tableau, html/css, JavaScript, D3, R/R-Shiny, or similar tools custom illustrations and graphic designs, and familiarity with Drupal. Information on what work will be completed during the Base Period and the Option Period is included in the subtasks below.

The main deliverables for this Task are:

- Dashboards and graphics based on already developed NARS dashboards; and support for maintaining and archiving currently posted dashboards (see <https://coastalcondition.epa.gov/> and <https://nationallakesassessment.epa.gov/> for current versions of NARS dashboards)
- Other data presentation tools, graphics, figures
- Analytical tools for partners
- Training materials

To initiate development of new data presentation approaches and tools, the contractor and EPA will have open conversations about content, how to address NARS reporting needs, and other issues. During discussions, the contractor shall demonstrate graphical displays and other data presentation/visualization techniques to EPA. As appropriate, following each of the discussions, the contractor shall generate additional ideas and potential ways of presenting data and submit to the TOCOR for comment.

4.1 NWCA Dashboard Development

During the Base Period, using data from the National Wetland Condition Assessment 2016, the contractor shall work with EPA to implement an interactive dashboard similar to the ones

developed for NLA, NCCA and NRSA³. EPA has developed a preliminary dashboard in D3 that will be provided to the contractor upon award. In refining and finalizing the NWCA dashboards, the product shall include features such as the ability for the user to visualize data in different ways, including by different geographic levels. In addition to reporting on the condition, and change/trends, other types of reporting that may be of interest include ways to visualize data concentration ranges/means/medians, etc., nationally and regionally; visualize plant data (taxonomic names, photos, others); incorporation (for more technical audiences) of cumulative distribution functions, and others. EPA intends to present such information, when possible, using the population weights. The contractor shall provide up to five dashboards/data presentation options for NWCA including possibly one in R Shiny format that would allow partners (e.g., states) to use their own statistical survey assessment results (this partner work will be done mostly in the Option Period). This R Shiny tool will support the ability of partners to use the tool to visualize state (or other) data in a format similar to the NWCA; and such that they can tailor the underlying script if they so choose. In developing this tool, the contractor shall work with EPA to document partner needs and prioritize the requests. These products will each have up to ten rounds of review/revision, including QA/QC by the contractor as EPA revises and finalizes data and assessments. In addition to work on the partner tool, EPA anticipates two rounds of revisions will take place in the Option Period.

For discussion purposes, the contractor shall demonstrate various options (but not build the final product) in a format of the contractor's choosing or as directed by the TOCOR (per Contract Clause H.12). The contractor shall work with EPA to post the D3 dashboard on EPA's server and to validate it is working correctly.

4.2 NCCA Dashboard Refinement

The D3 data dashboard for the NCCA 2015 is primarily completed. EPA will provide the D3 code to the contractor upon award. During the Base Period, the contractor shall work with EPA to make any needed edits or changes based on final reviews of the NCCA assessment or identification of problems in the product. If the TOCOR issues Technical Direction (per Contract Clause H.12)), the contractor shall develop an R Shiny version of the dashboard based on the NCCA dashboard and the NLA R Shiny application already developed. Work on a coastal R Shiny Partner App will take place in the Option Period. This R Shiny tool will support the ability of partners to use the tool to visualize state (or other) data in a format similar to the NCCA; and such that they can tailor the underlying script if they so choose. In developing this tool, the contractor shall work with EPA to document partner needs and prioritize the requests. These products will each have up to ten rounds of review/revision, including QA/QC by the contractor as EPA revises and finalizes data and assessments.

For discussion purposes, the contractor shall demonstrate various options (but not build the final product) in a format of the contractor's choosing or as directed by the TOCOR (per Contract Clause H.12). The contractor shall work with EPA to post the D3 dashboard on EPA's server and to validate it is working correctly if they are ready for that step.

³ To view the NLA and NCCA dashboards which are publicly available visit:
<https://nationallakesassessment.epa.gov/> and <https://coastalcondition.epa.gov/>

4.3 NLA Dashboard Development

During the Base Period, using data from the National Lakes Assessment 2017, the contractor shall work with EPA to refine and finalize the interactive dashboards for the NLA. A preliminary dashboard has already been developed in D3. EPA will provide the D3 code to the contractor upon award. The dashboards shall include features such as the ability for the user to visualize data in different ways, including by different geographic levels and other subpopulations. In addition to reporting on the condition and change, the updated dashboard may include information on trends. The contractor shall provide support for updating an existing R Shiny version designed for partner use with new/revised NLA data and assessment results. The dashboards will each have up to ten rounds of review/revision, including QA/QC by the contractor as EPA revises and finalizes data and assessments.

For discussion purposes, the contractor shall demonstrate various options (but not build the final product) in a format of the contractor's choosing or as directed by the TOCOR (per Contract Clause H.12). The contractor shall work with EPA to post the D3 dashboard on EPA's server and to validate it is working correctly if they are ready for that step.

4.4. NRSA Dashboard Development 2018-2019:

Using data from the National Rivers and Streams Assessment 2018/2019, the contractor shall work with EPA update the interactive D3 dashboards from NRSA 2013/2014. EPA will provide the D3 code to the contractor upon award. The dashboards shall include features such as the ability for the user to visualize data in different ways, including by different geographic levels and other subpopulations. In addition to reporting on the condition and change, the updated dashboard may include information on trends. The contractor shall develop a version of the NRSA dashboard in R Shiny (or similar product) (to support the ability of partners to use the tool to visualize state (or other) data. This R Shiny tool will support the ability of partners to use the tool to visualize state (or other) data in a format similar to other surveys; and such that they can tailor the underlying script if they so choose. In developing this tool, the contractor shall work with EPA to document partner needs and prioritize the requests. The dashboards for use on EPA's website will each have up to ten rounds of review/revision, including QA/QC by the contractor as EPA revises and finalizes data and assessments. The partner R Shiny tool shall have up to five rounds of review/revision, including QA/QC by the contractor. EPA anticipates work will begin during the Base Period and conclude in the Option Period. EPA anticipates that approximately 1/3 of the work will be in the Base Period and 2/3 of the work will in the Option Period.

For discussion purposes, the contractor shall demonstrate various options (but not build the final product) in a format of the contractor's choosing or as directed by the TOCOR (per Contract Clause H.12). The contractor shall work with EPA to post the D3 dashboard on EPA's server and to validate it is working correctly if they are ready for that step.

4.5. NARS Tools and Graphics/Figures/Illustrations for presentations and training purposes

4.5.a During the Base Period, following technical direction (per Contract Clause H.12), the contractor shall finalize the NLA Context tool in R Shiny including ensuring the script is fully documented and transparent for use by others. The contractor shall work with EPA on deploying the tool to an Cloud.gov. The contractor shall update the context tool with NLA 2017 data.

4.5.b Following discussions with the TOCOR and technical direction (per Contract Clause H.12), the contractor shall provide up to seven detailed graphics/figures/tools for use in NARS presentations and other communication venues in the Base and Option Period (for a total of 14). For each graphic/figure/tool, the contractor shall provide an initial draft mock-up of up to four options; and up to five draft versions following EPA comments.

4.5.c Following discussions with the TOCOR and technical direction (per Contract Clause H.12), the contractor shall also provide up to four other R-Shiny tools (or other accessible software if approved by the TOCOR which may include java script, html, Qlik, etc.) that will support EPA/state/tribal partners in conducting analyses (such as ability to analyze biological multimetric indices) or communicate information from NARS and/or state scale surveys in the Base and Option Period (for a total of 8). These products will each have up to eight rounds of review/revision.

4.5.d Following discussions with the TOCOR and technical direction (per Contract Clause H.12), the contractor shall develop or refine up to ten graphics/illustrations to help visualize and communicate field methods or other training materials for use by EPA and partners in each of the Base and Option Periods (for a total of up to twenty). The contractor shall provide up to three sets of revisions following EPA comments.

Deliverables and schedule under Task 4

Deliverables/Activities	Schedule
4.1 NWCA Dashboards	Revisions within ten to twenty business days depending on extent of revisions and technical direction (per Contract Clause H.12) following EPA comments. Validation within ten business days of posting on EPA server.
4.2 NCCA Dashboards	Revisions within ten to twenty business days depending on extent of revisions and technical direction (per Contract Clause H.12) following EPA comments. Validation within ten business days of posting on EPA server.

4.3 NLA Dashboards	Revisions within ten to twenty business days depending on extent of revisions and technical direction (per Contract Clause H.12) following EPA comments. Validation within ten business days of posting on EPA server.
4.4 NRSA Dashboards	Revisions within ten to twenty business days depending on extent of revisions and technical direction (per Contract Clause H.12) following EPA comments. Validation within ten business days of posting on EPA server.
4.5.a NLA Context Tool	Revisions with ten business days following EPA comments. Final within five business days following EPA comments.
4.5.b Graphics/Figures/Tools	Options within ten to twenty business days per technical direction (per Contract Clause H.12) following EPA comments. Revisions and final within ten business days following EPA comments.
4.5.c R Shiny tools	Options within ten to twenty business days per technical direction (per Contract Clause H.12) following EPA comments. Revisions and final within ten to twenty business days per technical direction (per Contract Clause H.12) following EPA comments.
4.5.d Graphics/Illustrations	Revisions and final within ten business days following EPA comments.

VI. TRAVEL

EPA does not anticipate any travel associated with this Task Order.

VII. Quality Assurance Surveillance Plan (QASP)

EPA will judge performance using the following Quality Assurance Surveillance Plan (QASP).

Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/ Disincentives
<p>Management and Communications:</p> <p>The contractor shall maintain contact with the EPA CO and TOPO throughout the performance of the task order and shall immediately bring potential problems to the attention of the EPA TOPO. In cases where issues have a direct impact on project schedules, cost, time, or quality, the contractor shall provide options for EPA's consideration on resolving the issues or mitigating their impacts.</p>	<p>Any issue adversely impacting project schedules, cost, time or quality shall be brought to the attention of the EPA TOPO within 3-work days of occurrence.</p>	<p>All deliverables will be reviewed by the EPA TOPO (via monthly progress report) to identify unreported issues.</p>	<p>Two or more incidents where the contractor does not meet the measurable performance will be considered unsatisfactory performance and will be reported as such in the CPARS Performance Evaluation System under the category of Business Relations.</p> <p>Fewer than two incidents per task order where the contractor does not meet the measurable performance standard will be considered acceptable performance and will be reported as such in the CPARS Performance Evaluation System under the category of Business Relations.</p>
<p>Timeliness:</p> <p>Services and deliverables shall be in accordance with schedules slated in the task order, unless amended or modified by an approved EPA action.</p>	<p>No more than 25% of all deliverables shall be submitted more than 3 work days past the due date.</p>	<p>100% of the deliverables will be reviewed by the EPA TOPO monthly (via monthly progress report & milestones established for each deliverable) to compare actual delivery dates against those approved.</p>	<p>Unsatisfactory rating under the category of Timeliness in CPARS when the contractor does not meet the measurable performance standards.</p>
<p>Cost Management and Control.</p> <p>The contractor shall monitor, track, and accurately report cost and fee expenditures to EPA through progress reports and approved special reporting requirements. The contractor shall assign appropriately leveled and skilled personnel to all tasks, practice and encourage time management, and</p>	<p>The contractor shall manage costs to the level of approved ceiling on the task order. The contractor shall notify the TOPO, contract PO, and CO when 75% of the approved funding ceiling for the task order is reached.</p>	<p>The TOPO will review monthly progress reports & milestones established for each deliverable to compare actual versus projected expenditures.</p>	<p>Unsatisfactory rating under the category of Cost Control in CPARS when the contractor does not meet the measurable performance standards during an applicable period of performance.</p> <p>An acceptable rating will be reported in the CPARS Performance Evaluation System under the category of Cost Control if the contractor meets the measureable performance</p>

Performance Requirement	Measurable Performance Standards	Surveillance Method	Incentives/ Disincentives
ensure accurate and appropriate cost control.			standards and accurately reports the costs in the progress reports according to the requirements in the "Reports of Work" attachment to the RFP.
Technical Effort. The contractor shall abide by its QMP and document SOP in performing work on this task order.	No more than 25% of reviewed deliverables and work products shall require revisions to meet the requirements of the QMP, PWS, and technical direction.	All deliverables will be reviewed by the EPA TOPO to identify noncompliance issues with the QMP, PWS, and technical direction.	Unsatisfactory rating under the category of Quality of Product or Service in CPARS when the contractor does not meet the measurable performance standards during an applicable period of performance.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 3	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00001		See Block 16C		PR-OW-21-00010			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)			
Avanti Corporation Attn: LYNN PETRAZZUOLO 6621 Richmond Hwy #200 Alexandria VA 223066602							
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				x 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-C-16-007 68HERC20F0405			
				10B. DATED (SEE ITEM 13) 09/22/2020			
CODE 796250538		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Schedule				(b)(4)			
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
X	D. OTHER (Specify type of modification and authority) Unilateral - FAR 52.232-22; Limitation of Funds						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 796250538							
The purpose of this modification is to provide incremental funding to the Base Period in the amount of (b)(4)							
TOCOR: Sarah Lehmann Max Expire Date: 09/21/2021 Invoice Approver: Sarah Lehmann Alt Invoice App: Kendra Forde							
LIST OF CHANGES:							
Reason for Modification: Funding Only Action							
New Total Amount for this Version: \$630,060.00							
New Total Amount for this Award: (b)(4)							
Obligated Amount for this Modification: (b)(4)							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				Sandra Stargardt-Licis			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				ELECTRONIC SIGNATURE		11/05/2020	
				(Signature of Contracting Officer)			

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
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NAME OF OFFEROR OR CONTRACTOR

Avanti Corporation

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>New Total Obligated Amount for this Award: (b)(4)</p> <p>Incremental Funded Amount changed: from (b)(4)</p> <p>CHANGES FOR LINE ITEM NUMBER: 1 Obligated Amount for this Modification: (b)(4)</p> <p>Incremental Funded Amount changed from (b)(4)</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 21-22-B-87FM-000BD4-2505-2187ME4002-001 Beginning FiscalYear 21 Ending Fiscal Year 22 Fund (Appropriation) B Budget Organization 87FM Program (PRC) 000BD4 Budget (BOC) 2505 Job # (Site/Project) Cost Organization DCN-LineID 2187ME4002-001 Quantity: 0 Amount: (b)(4) Percent: (b)(4) Subject To Funding: N Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Period of Performance: 09/22/2020 to 09/21/2021 All other terms and conditions remain unchanged.</p>				

SECTION B - Supplies or Services/Prices

B-3 Local Clauses EPA-B-32-101 LIMITATION OF FUNDS NOTICE - BASE PERIOD

(a) Severable services may be incrementally funded. Non-severable services shall not be incrementally funded. Pursuant to clause 52.232-22/Limitation of Funds, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 07/13/2021.

(b) When the contract is fully funded as specified in clause EPA-B-16-102/ Estimated Cost and Fixed Fee, then clause 52.232-20/Limitation of Cost shall become applicable.

(c) Recapitulation of Funds

Funding Action Estimated Cost Fixed Fee Total CPFF

RECAPITULATION OF FUNDING TO DATE BY CONTRACT PERIOD

CONTRACT NO. EP-C-16-007

TASK ORDER NO. 68HERC20F0405

Base Period - FROM 9/22/2020 through 09/21/2021

<u>FUNDING ACTION</u>	<u>ESTIMATED COST</u>	<u>FIXED FEE</u>	<u>TOTAL COST PLUS FIXED FEE</u>
Award	(b)(4)	(b)(4)	\$ 150,000.00
P00001			\$ 359,000.00
Total Funded			\$ 509,000.00
Total Per Contract			\$ 630,060.00
Balance Unfunded			\$ 121,060.00

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 5	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00002		See Block 16C		PR-OW-21-00357			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)			
Avanti Corporation Attn: LYNN PETRAZZUOLO 6621 Richmond Hwy #200 Alexandria VA 223066602							
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				x			
				10A. MODIFICATION OF CONTRACT/ORDER NO. EP-C-16-007 68HERC20F0405			
				10B. DATED (SEE ITEM 13) 09/22/2020			
CODE 796250538		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				(b)(4)			
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
X	D. OTHER (Specify type of modification and authority) Unilateral - EPAAR 1552.217-71 Option to Extend the Term of the Contract and 52.232-22						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 796250538							
The purpose of this modification is to: (1) Provide funding to the Base Period in the amount of (b)(4) to fully fund the Base Period in accordance with the attached Recapitulation sheets; (2) Exercise Option Period 1; and (3) Provide incremental funding to Option Period 1 in the amount of (b)(4) to fee) in accordance with the attached Recapitulation Sheets.							
TOCOR: Sarah Lehmann Max Expire Date: 09/21/2022 Invoice Approver: Sarah Lehmann Alt Invoice App: Kendra Forde							
LIST OF CHANGES:							
Reason for Modification: Exercise an Option							
Period Of Performance End Date changed from 21-SEP-21 to 21-SEP-22							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				Sandra Stargardt-Licis			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				ELECTRONIC SIGNATURE		04/26/2021	
				(Signature of Contracting Officer)			

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
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2 5NAME OF OFFEROR OR CONTRACTOR
Avanti Corporation

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>New Total Amount for this Version: (b)(4)</p> <p>New Total Amount for this Award: (b)(4)</p> <p>Obligated Amount for this Modification: (b)(4)</p> <p>New Total Obligated Amount for this Award: (b)(4)</p> <p>Incremental Funded Amount changed: from (b)(4)</p> <p>Maximum Potential Expiration Date changed to: 09/21/2022</p> <p>CHANGES FOR LINE ITEM NUMBER: 1</p> <p>Obligated Amount for this Modification: (b)(4)</p> <p>Incremental Funded Amount changed from (b)(4) \$630,060.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 21-22-B-87FM-000BD4-2505-2187ME4020-001 Beginning Fiscal Year 21 Ending Fiscal Year 22 Fund (Appropriation) B Budget Organization 87FM Program (PRC) 000BD4 Budget (BOC) 2505 Job # (Site/Project) Cost Organization DCN-LineID 2187ME4020-001 Quantity: 0 Amount: (b)(4) Percent: 0 Subject To Funding: N Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>CHANGES FOR LINE ITEM NUMBER: 2</p> <p>Obligated Amount for this Modification: (b)(4)</p> <p>Incremental Funded Amount changed from \$0.00 to (b)(4)</p> <p>Exercised option</p> <p>NEW ACCOUNTING CODE ADDED: Account code: Continued ...</p>				

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	EP-C-16-007/68HERC20F0405/P00002	3	5

NAME OF OFFEROR OR CONTRACTOR

Avanti Corporation

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	21-22-B-87FM-000BD4-2505-2187ME4020-001 Beginning FiscalYear 21 Ending Fiscal Year 22 Fund (Appropriation) B Budget Organization 87FM Program (PRC) 000BD4 Budget (BOC) 2505 Job # (Site/Project) Cost Organization DCN-LineID 2187ME4020-001 Quantity: 0 Amount: (b)(4) Percent: 0 Subject To Funding: N Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 09/22/2020 to 09/21/2022 All other terms and conditions remain unchanged.				

SECTION B - Supplies or Services/Prices

B-3 Local Clauses EPA-B-32-101 LIMITATION OF FUNDS NOTICE - BASE PERIOD

(a) Severable services may be incrementally funded. Non-severable services shall not be incrementally funded. Pursuant to clause 52.232-22/Limitation of Funds, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 09/21/2021.

(b) When the contract is fully funded as specified in clause EPA-B-16-102/ Estimated Cost and Fixed Fee, then clause 52.232-20/Limitation of Cost shall become applicable.

(c) Recapitulation of Funds

Funding Action Estimated Cost Fixed Fee Total CPFF

RECAPITULATION OF FUNDING TO DATE BY CONTRACT PERIOD

CONTRACT NO. EP-C-16-007

TASK ORDER NO. 68HERC20F0405

Base Period - FROM 9/22/2020 through 09/21/2021

<u>FUNDING ACTION</u>	<u>ESTIMATED COST</u>	<u>FIXED FEE</u>	<u>TOTAL COST PLUS FIXED FEE</u>
Award	(b)(4)	(b)(4)	\$ 150,000.00
P00001			\$ 359,000.00
P00002			\$ 121,060.00
Total Funded			\$ 630,060.00
Total Per Contract			\$ 630,060.00
Balance Unfunded			\$ -

B-2 Local Clauses EPA-B-16-102 ESTIMATED COST AND FIXED FEE – OPTION PERIOD

(a) The estimated cost of this contract is (b)(4)

(b) The fixed fee is (b)(4)

(c) The total estimated cost and fixed fee is \$362,299.

B-3 Local Clauses EPA-B-32-101 LIMITATION OF FUNDS NOTICE – OPTION PERIOD

(a) Severable services may be incrementally funded. Non-severable services shall not be incrementally funded. Pursuant to clause 52.232-22/Limitation of Funds, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 10/11/2021.

(b) When the contract is fully funded as specified in clause EPA-B-16-102/ Estimated Cost and Fixed Fee, then clause 52.232-20/Limitation of Cost shall become applicable.

(c) Recapitulation of Funds

Funding Action Estimated Cost Fixed Fee Total CPFF

RECAPITULATION OF FUNDING TO DATE BY CONTRACT PERIOD

CONTRACT NO. EP-C-16-007

TASK ORDER NO. 68HERC20F0405

Option Period - FROM 9/22/2021 through 09/21/2022

<u>FUNDING ACTION</u>	<u>ESTIMATED COST</u>	<u>FIXED FEE</u>	<u>TOTAL COST PLUS FIXED FEE</u>
P00002	(b)(4)	(b)(4)	\$ 18,940.00
Total Funded			\$ 18,940.00
Total Per Contract			\$ 362,299.00
Balance Unfunded			\$ 343,359.00

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 3	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00003		See Block 16C		PR-OW-21-00496			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)			
Avanti Corporation Attn: LYNN PETRAZZUOLO 6621 Richmond Hwy #200 Alexandria VA 223066602							
				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				x			
				10A. MODIFICATION OF CONTRACT/ORDER NO. EP-C-16-007 68HERC20F0405			
				10B. DATED (SEE ITEM 13) 09/22/2020			
CODE 796250538		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				(b)(4)			
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
X	D. OTHER (Specify type of modification and authority) Unilateral - IAW FAR 52.232-22, Local Clauses EPA-B-32-101 Limitation of Funds						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 796250538							
The purpose of this modification is to provide incremental funding to Option Period 1 in the amount of (b)(4) in accordance with the attached recapitulation sheets.							
TOCOR: Sarah Lehmann Max Expire Date: 09/21/2022 Invoice Approver: Sarah Lehmann Alt Invoice App: Kendra Forde							
LIST OF CHANGES:							
Reason for Modification: Funding Only Action							
New Total Amount for this Version: (b)(4)							
New Total Amount for this Award: (b)(4)							
Obligated Amount for this Modification: (b)(4)							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				Sandra Stargardt-Licis			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				ELECTRONIC SIGNATURE		06/08/2021	
				(Signature of Contracting Officer)			

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
EP-C-16-007/68HERC20F0405/P00003

PAGE OF
2 3

NAME OF OFFEROR OR CONTRACTOR
Avanti Corporation

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>New Total Obligated Amount for this Award: (b)(4)</p> <p>Incremental Funded Amount changed: from (b)(4)</p> <p>CHANGES FOR LINE ITEM NUMBER: 2 Obligated Amount for this Modification: (b)(4) Incremental Funded Amount changed (b)(4) (b)(4)</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 21-22-B-87FM-000BD4-2505-2187ME4028-001 Beginning FiscalYear 21 Ending Fiscal Year 22 Fund (Appropriation) B Budget Organization 87FM Program (PRC) 000BD4 Budget (BOC) 2505 Job # (Site/Project) Cost Organization DCN-LineID 2187ME4028-001 Quantity: 0 Amount: (b)(4) Percent: (b)(4) Subject To Funding: N Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Period of Performance: 09/22/2020 to 09/21/2022 All other terms and conditions remain unchanged.</p>				

SECTION B - Supplies or Services/Prices

B-3 Local Clauses EPA-B-32-101 LIMITATION OF FUNDS NOTICE – OPTION PERIOD

(a) Severable services may be incrementally funded. Non-severable services shall not be incrementally funded. Pursuant to clause 52.232-22/Limitation of Funds, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 09/20/2022.

(b) When the contract is fully funded as specified in clause EPA-B-16-102/ Estimated Cost and Fixed Fee, then clause 52.232-20/Limitation of Cost shall become applicable.

(c) Recapitulation of Funds

Funding Action Estimated Cost Fixed Fee Total CPFF

RECAPITULATION OF FUNDING TO DATE BY CONTRACT PERIOD

CONTRACT NO. EP-C-16-007
TASK ORDER NO. 68HERC20F0405

Option Period - FROM 9/22/2021 through 09/21/2022

FUNDING ACTION	ESTIMATED COST	FIXED FEE	TOTAL COST PLUS FIXED FEE
P00002	(b)(4)	(b)(4)	\$ 18,940.00
P00003			\$ 343,000.00
Total Funded			\$ 361,940.00
Total Per Contract			\$ 362,299.00
Balance Unfunded			\$ 359.00